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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/587,892	06/06/2000	Ramesh Nagarajan	12	8023
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Joseph B Ryan Ryan & Mason LLP			NGUYEN, TOAN D	
90 Forest Aven			ART UNIT	PAPER NUMBER
Locust Valley, NY 11560			2665	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(a)			
			Applicant(s)			
	Office Action Summan	09/587,892	NAGARAJAN, RAMESH			
	Office Action Summary	Examiner	Art Unit			
·		Toan D. Nguyen	2665			
Period f	The MAILING DATE of this communication or Reply	n appears on the cover sheet	with the correspondence address			
THE - External control	MORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI ensions of time may be available under the provisions of 37 C r sIX (6) MONTHS from the mailing date of this communicative period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, mayon. a reply within the statutory minimum of period will apply and will expire SIX (6) No statute, cause the application to become	r a reply be timely filed thirly (30) days will be considered timely. MONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. & 133)			
Status						
1)🖂	Responsive to communication(s) filed on	17 November 2004.				
2a)⊠	This action is FINAL . 2b)	This action is non-final.				
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice un	der <i>Ex par</i> te Quayle, 1935 C	C.D. 11, 453 O.G. 213.			
Disposit	tion of Claims					
4)🖂	Claim(s) 1-19 is/are pending in the application	ation.				
·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[Claim(s) is/are allowed.					
6)🖂	☐ Claim(s) <u>1-19</u> is/are rejected.					
7)						
8)[Claim(s) are subject to restriction a	and/or election requirement.				
Applicat	tion Papers					
	The specification is objected to by the Exa	miner				
	☐ The specification is objected to by the Examiner. ☐ The drawing(s) filed on 17 November 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
, , <u>, , , , , , , , , , , , , , , , , </u>	Applicant may not request that any objection to					
	Replacement drawing sheet(s) including the or		• •			
11)	The oath or declaration is objected to by the					
	under 35 U.S.C. § 119					
	•		0.440(-) (1) (0			
	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C	. § 119(a)-(d) or (f).			
a)	a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents of the priority documents of the priority documents.		Application No.			
	3. Copies of the certified copies of the					
	application from the International B		en received in this Mational Stage			
* (See the attached detailed Office action for		ot received.			
Attachmer	• •					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94)	4) Linterview	w Summary (PTO-413) lo(s)/Mail Date			
3) 🔀 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/S		of Informal Patent Application (PTO-152)			
Pape	er No(s)/Mail Date <u>11/17/04</u> .	6) 🔲 Other: _	·			

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russ et al. (US 5,781,535) in view of Van Deventer (US 5,886,801).

For claims 1 and 8-9, Russ et al. disclose implementation protocol for SHN-based algorithm restoration platform, the method comprising the steps of:

routing a given traffic demand from a first network element (figure 8, reference NODE 4, col. 9 lines 62-64) to a second network element (figure 8, reference NODE 2) (col. 10 lines 4-6); and

processing the traffic demand in the second network element (figure 8, reference NODE 2) such that a copy of a signal associated with the demand is at least one of: (i) retained at the second network element (reference NODE 2, col. 10 lines 29-30), while the signal is routed to at least one additional network element (col. 10 lines 4-5); and (ii) routed to at least one additional network element, while the signal is routed to at least one network element other than the additional network element (col. 10 lines 4-5).

However, Russ et al. do not expressly disclose:

wherein the second network element is coupled to a first dual-homed network element of a set of dual-homed network elements, either directly or via a given network

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element corresponding to said at least one network element other than the additional network element; and

wherein a given network element corresponding to said at least one additional network elements is coupled to a second dual-homed network element of the set of dual-homed network elements, either directly or via another additional network element.

In an analogous art, Van Deventer disclose:

wherein the second network element is coupled to a first dual-homed network element of a set of dual-homed network elements, either directly or via a given network element corresponding to said at least one network element other than the additional network element (col. 3 lines 39-47 and col. 7 lines 6-9); and

wherein a given network element corresponding to said at least one additional network elements is coupled to a second dual-homed network element of the set of dual-homed network elements, either directly or via another additional network element (col. 3 lines 39-47 and col. 7 lines 6-9).

Van Deventer disclose further wherein the second network element is an element of a set of dual homed network elements (col. 3 lines 39-47 and col. 7 lines 6-9 as set forth in claim 8); wherein the at least one additional network element is an element of a set of dual-homed network elements (col. 3 lines 39-47 and col. 7 lines 6-9 as set forth in claim 9).

One skilled in the art would have recognized the second network element is coupled to a first dual-homed network element of a set of dual-homed network elements, and would have applied Van Deventer's dual homing technique in Russ et

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al.'s preactivation flooding process. Therefore, it would have been obvious to one of ordinary skilled in the art at the time of the invention, to use Van Deventer's coupling arrangement for coupling optical connections in Russ et al.'s implementation protocol for SHN-based algorithm restoration platform with the motivation being to provide a distributive network in which the technique of dual homing is applied (col. 3 lines 39-40).

For claim 2, Russ et al disclose wherein the first network element (figure 8, reference NODE 4) comprises a source network element of the traffic demand (col. 9 lines 62-64).

For claim 3, Russ et al disclose wherein the second network element (figure 8, reference NODE 2, comprises an element of a ring-type transport (col. 1 lines 54-55).

For claim 4, Russ et al disclose wherein the second network element (figure 8, reference NODE 2) comprises an element of a mesh-type transport (col. 1 line 60).

For claim 5, Russ et al disclose wherein the copy of the signal associated with the demand is generated and retained at the second network element (reference NODE 2, col. 10 lines 29-30), and the signal continues on to another network element (col. 10 lines 4-5).

For claim 6, Russ et al disclose wherein a copy of the signal is generated at each of a set of multiple network elements including the second network element (col. 10 lines 4-5 and col. 10 lines 29-30).

For claim 7, Russ et al disclose wherein the copy of the signal associated with the demand (col. 10 lines 29-30) comprises at least a portion of a multicast of the signal

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generated by the second network element (reference NODE 2) and multicast to at least two other network elements (figure 8, col. 10 lines 8-12).

For claims 10, 17 and 18, Russ et al disclose implementation protocol for SHN-based algorithm restoration platform, the apparatus comprising:

a given network element (figure 8, reference NODE 2) coupled to one or more additional network elements (figure 8, references NODE 1, 3, 4, 5 and 6) and operative to process a traffic demand received from one of the additional network elements (figure 8, reference NODE 4) such that a copy of a signal associated with the demand is at least one of: (i) retained at the given network element (col. 10 lines 29-30), while the signal is routed to at least one of the additional network elements (col. 10 lines 4-5); and (ii) routed to at least one of the additional network elements, while the signal is routed to at least one network element other than the one of the additional network elements (figure 8, col. 10 lines 4-5).

However, Russ et al. do not expressly disclose:

wherein the given network element is coupled to a first dual-homed network element of a set of dual-homed network elements, either directly or via a given network element corresponding to said at least one network element other than the additional network element; and

wherein another network element corresponding to said at least one of the additional network elements is coupled to a second dual-homed network element of the set of dual-homed network elements, either directly or via another additional network element.

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In an analogous art, Van Deventer disclose:

wherein the given network element is coupled to a first dual-homed network element of a set of dual-homed network elements, either directly or via a given network element corresponding to said at least one network element other than the additional network element (col. 3 lines 39-47 and col. 7 lines 6-9); and

wherein another network element corresponding to said at least one of the additional network elements is coupled to a second dual-homed network element of the set of dual-homed network elements, either directly or via another additional network element (col. 3 lines 39-47 and col. 7 lines 6-9).

Van Deventer disclose further wherein the given network element is an element of a set of dual-homed network elements (col. 3 lines 39-47 and col. 7 lines 6-9 as set forth in claim 17); and wherein at least one of the additional network elements is an element of a set of dual-homed network elements (col. 3 lines 39-47 and col. 7 lines 6-9 as set forth in claim 18).

One skilled in the art would have recognized the given network element is coupled to a first dual-homed network element of a set of dual-homed network elements, and would have applied Van Deventer's dual homing technique in Russ et al.'s pre-activation flooding process. Therefore, it would have been obvious to one of ordinary skilled in the art at the time of the invention, to use Van Deventer's coupling arrangement for coupling optical connections in Russ et al.'s implementation protocol for SHN-based algorithm restoration platform with the motivation being to provide a distributive network in which the technique of dual homing is applied (col. 3 lines 39-40).

For claim 11, Russ et at disclose wherein the. traffic demand is received at the given network element (reference NODE 2) from a source network element of the traffic demand (figure 8, reference NODE 4) (col. 9 lines 62-64).

For claim 12, Russ et al disclose wherein the given network element comprises an element of a ring-type transport (col. 1 lines 54-55).

For claim 13, Russ et al disclose further wherein the given network element comprises an element of a mesh-type transport (col. 1 line 60).

For claim 14, Russ et al disclose wherein the copy of the signal associated with the demand is generated and retained at the given network element (reference NODE 2, col. 10 lines 29-30) and the signal continues on to another network element (col. 10 lines 4-5).

For claim 15, Russ et al disclose wherein a copy of the signal is generated at each of a set of multiple network elements including the given network element (col. 10 lines 4-5 and col. 10 lines 29-30).

For claim 16, Russ et al disclose wherein the copy of the signal associated with the demand (col. 10 lines 29-30) comprises at least a portion of a multicast of the signal generated by the given network element and multicast to at least two other network elements (figure 8, col. 10 lines 8-12).

For claim 19, Russ et al disclose implementation protocol for SHN-based algorithm restoration platform, the apparatus comprising:

a first network element (figure 8, reference NODE 4, col. 9 line 62); and

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a second network element (figure 8, reference NODE 2) coupled to the first network element (figure 8, reference NODE 4), the first network element (reference NODE 4) routing a given traffic demand to the second network element (reference NODE 2)(col. 9 lines 62-64 and col. 10 lines 4-5), the second network element (figure 8, reference NODE 2) processing the traffic demand such that a copy of a signal associated with the demand is at least one of (i) retained at the second network element (reference NODE 2, col. 10 lines 29-30), while the signal is routed to at least one additional network element (col. 10 lines 4-5); and (ii) routed to at least one additional network element, while the signal is routed to at least one network element other than the additional network element (col. 10 lines 4-5).

However, Russ et al. do not expressly disclose:

wherein the second network element is coupled to a first dual-homed network element of a set of dual-homed network elements, either directly or via a given network element corresponding to said at least one network element other than the additional network element; and

wherein a given network element corresponding to said at least one additional network elements is coupled to a second dual-homed network element of the set of dual-homed network elements, either directly or via another additional network element.

In an analogous art, Van Deventer disclose:

wherein the second network element is coupled to a first dual-homed network element of a set of dual-homed network elements, either directly or via a given network

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element corresponding to said at least one network element other than the additional network element (col. 3 lines 39-47 and col. 7 lines 6-9); and

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wherein a given network element corresponding to said at least one additional network elements is coupled to a second dual-homed network element of the set of dual-homed network elements, either directly or via another additional network element (col. 3 lines 39-47 and col. 7 lines 6-9).

One skilled in the art would have recognized the second network element is coupled to a first dual-homed network element of a set of dual-homed network elements, and would have applied Van Deventer's dual homing technique in Russ et al.'s preactivation flooding process. Therefore, it would have been obvious to one of ordinary skilled in the art at the time of the invention, to use Van Deventer's coupling arrangement for coupling optical connections in Russ et al.'s implementation protocol for SHN-based algorithm restoration platform with the motivation being to provide a distributive network in which the technique of dual homing is applied (col. 3 lines 39-40).

Response to Arguments

3. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment on 11/17/04 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 703-305-0140. The examiner can normally be reached on Monday- Friday (7:OOAM-4:30PM). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 703-308-6602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

TN

MAN U. PHAN PRIMARY EXAMINER